

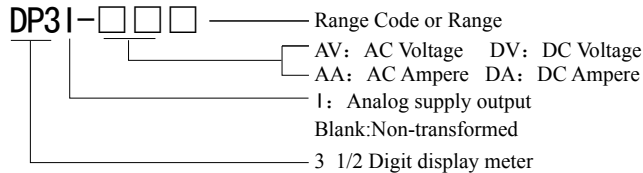
3 1/2 Digit Voltage / Ampere Meter



FEATURES:

- ⊙ With transformed Analog 4~20mA or 0~20mA Output
- ⊙ Sampling speed 2.5 times/s
- ⊙ Zero adjustment (Fixed decimal point)
- ⊙ Dimension 48H×96W
- ⊙ Display range ±1999

1. ORDERING CODE



2. CODE ILLUSTRATION

◆ AC DIGITAL VOLTMETER

| Model | Range | Resolution | Input Impedance | PT | Measuring accuracy | input protection |
|----------------|-------|------------|-----------------|----------------|--------------------|------------------|
| DP3 (1) -AV0.2 | 200mV | 100uV | 5MΩ | input directly | ±0.5%F.S±2Digit | 5V(Peak) |
| DP3 (1) -AV2 | 2V | 1mV | 5MΩ | input directly | ±0.5%F.S±2Digit | 10V(Peak) |
| DP3 (1) -AV20 | 20V | 10mV | 5MΩ | input directly | ±0.5%F.S±2Digit | 50V(Peak) |
| DP3 (1) -AV200 | 200V | 100mV | 5MΩ | input directly | ±0.5%F.S±2Digit | 500V(Peak) |
| DP3 (1) -AV600 | 600V | 1V | 5MΩ | input directly | ±1%F.S±2Digit | 1000V(Peak) |
| DP3 (1) -AV3K | 3KV | 10V | 5MΩ | 3KV:100V | ±1%F.S±2Digit | |
| DP3 (1) -AV10K | 10KV | 10V | 5MΩ | 10KV:100V | ±0.5%F.S±2Digit | |

Notes: "1" means selectable, if you don't need Analog supply output, select the model without "1". If you need, select "1" mode. For example, the mode DP3 - AV20 hasn't Analog supply output, DP31 - AV20 is with Analog supply DC 4~20mA output.

◆ AC DIGITAL AMMETER

| Model | Range | Resolution | CT | Measuring accuracy | input protection |
|-----------------|-------|------------|----------------|--------------------|------------------|
| DP3 (1) -AA0.2 | 200mA | 100uA | input directly | ±0.5%F.S±2Digit | 200mA |
| DP3 (1) -AA2 | 2A | 1mA | input directly | ±0.5%F.S±2Digit | 5A |
| DP3 (1) -AA20 | 20A | 10mA | 20A:5A | ±0.5%F.S±2Digit | 1.2F.S |
| DP3 (1) -AA50 | 50A | 100mA | 50A:5A | ±1%F.S±2Digit | 1.2F.S |
| DP3 (1) -AA100 | 100A | 100mA | 100A:5A | ±0.5%F.S±2Digit | 1.2F.S |
| DP3 (1) -AA150 | 150A | 100mA | 150A:5A | ±0.5%F.S±2Digit | 1.2F.S |
| DP3 (1) -AA200 | 200A | 100mA | 200A:5A | ±0.5%F.S±2Digit | 1.2F.S |
| DP3 (1) -AA500 | 500A | 1A | 500A:5A | ±1%F.S±2Digit | 1.2F.S |
| DP3 (1) -AA1000 | 1000A | 1A | 1000A:5A | ±0.5%F.S±2Digit | 1.2F.S |
| DP3 (1) -AA1500 | 1500A | 1A | 1500A:5A | ±0.5%F.S±2Digit | 1.2F.S |
| DP3 (1) -AA2000 | 2000A | 1A | 2000A:5A | ±0.5%F.S±2Digit | 1.2F.S |

◆ DC DIGITAL AMMETER

| Model | Range | Resolution | PT | Measuring accuracy | input protection | Internal Impedance |
|-------------------|-------|------------|----------------|--------------------|------------------|--------------------|
| DP3 (1) -DA0.0002 | 200uA | 100nA | input directly | ±0.5%F.S±2Digit | 10mA | 1KΩ |
| DP3 (1) -DA0.002 | 2mA | 1uA | input directly | ±0.5%F.S±2Digit | 100mA | 100Ω |
| DP3 (1) -DA0.02 | 20mA | 10uA | input directly | ±0.5%F.S±2Digit | 500mA | 10Ω |
| DP3 (1) -DA0.2 | 200mA | 100uA | input directly | ±0.5%F.S±2Digit | 1A | 1Ω |
| DP3 (1) -DA2 | 2A | 1mA | input directly | ±0.5%F.S±2Digit | 5A | 0.1Ω |
| DP3 (1) -DA20 | 20A | 10mA | 20A:75mV | ±0.5%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA30 | 30A | 100mA | 30A:75mV | ±1%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA50 | 50A | 100mA | 50A:75mV | ±1%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA100 | 100A | 100mA | 100A:75mV | ±0.5%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA150 | 150A | 100mA | 150A:75mV | ±0.5%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA200 | 200A | 100mA | 200A:75mV | ±0.5%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA300 | 300A | 1A | 300A:75mV | ±1%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA500 | 1000A | 1A | 500A:75mV | ±1%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA1000 | 1000A | 1A | 1000A:75mV | ±0.5%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA1500 | 1500A | 1A | 1500A:75mV | ±0.5%F.S±2Digit | 1.5F.S | 5MΩ |
| DP3 (1) -DA2000 | 2000A | 1A | 2000A:75mV | ±0.5%F.S±2Digit | 1.5F.S | 5MΩ |

◆ DC DIGITAL VOLTMETER

| Model | Range | Resolution | Input Impedance | Measuring accuracy | input protection |
|----------------|-------|------------|-----------------|--------------------|------------------|
| DP3 (1) -DV0.2 | 200mV | 100uV | 5MΩ | ±0.5%F.S±2Digit | 10V |
| DP3 (1) -DV2 | 2V | 1mV | 5MΩ | ±0.5%F.S±2Digit | 100V |
| DP3 (1) -DV20 | 20V | 10mV | 5MΩ | ±0.5%F.S±2Digit | 500V |
| DP3 (1) -DV200 | 200V | 100mV | 5MΩ | ±0.5%F.S±2Digit | 750V |
| DP3 (1) -DV500 | 500V | 1V | 5MΩ | ±1%F.S±2Digit | 800V |

Notes: (1) Ambient temperature of 20±2°C , humidity 45% to 75% R.H,the measuring accuracy can be assured.

(2)The list of item CT and PT mode is the basic model.other scales for example, the first AC rated ampere is 10A、15A、30A、75A、250A、1500A, the first DC rated ampere is 10A、15A、30A、75A、300A、1500A, the first AC voltage is 1KV、6KV、11KV、35KV、110KV, all can suit the demand of customer.

(3)With AC CT, the second rated ampere is 5A, AC PT of the second voltage is 100V, DC divider of the second rated voltage is 75mV. Special second rated ampere or voltage,please contact with us.

(4)CT and PT may be equipped according to customers requirements.

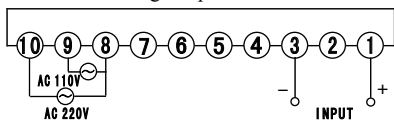
(5)The scale of the meter can be adjusted by the inner decimal point switch and the scale switch of the meter.

3 SPECIFICATIONS

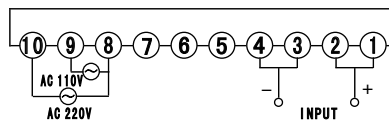
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|----------------------|--|
| Max.display | 1999 (AC Display available scaling function) |
| Input mode | Single-terminal Input |
| A/D converter | Dual slope |
| Frequency range | 40~200Hz (Only for AC) |
| Overflow indication | “1” or “-1” |
| Polarity display | Only“-”displayed (only DC) |
| Display | Red LED (14.2mmH) |
| Power supply | AC 110/220V±10%, 50/60Hz |
| Power consumption | ≤4.5VA |
| Insulation strength | AC 1500V 1min |
| Insulation impedance | DC 500V≥100MΩ |
| Weight | 500g |

4. TERMINAL CONNECTION

1. Without Analog Output Connection Drawing

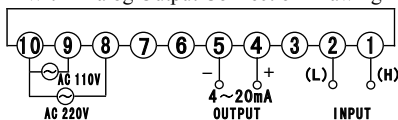


AC/DC Voltmeter or DC Ammeter

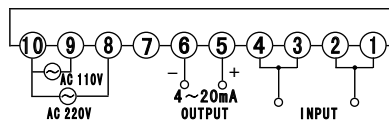


AC Ammeter

2. With Analog Output Connection Drawing



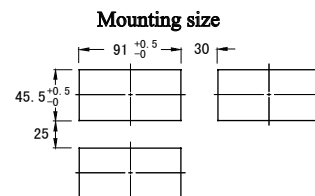
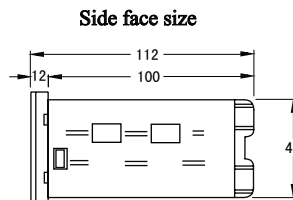
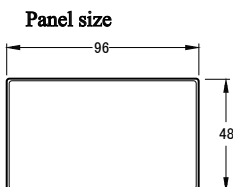
AC/DC Voltmeter or DC Ammeter



AC Ammeter

Note:If there is any change, please subject to the drawing on the Meter!

5. INSTALLATION DIMENSIONS



6. CAUTIONS

- (1) The meter must be heated 15 minutes with the power on before use.
- (2) Use in ambient temperatures of 0°C to 40°C, humidity less than 85%R.H.
- (3) The meter alignment interval time is one year.
- (4) Avoid vibrations or shock,excessive dust, corrosive chemical materials or gas.
- (5) If the input signal is super imposed with high-frequency noise, use a low-passed filter in the input wire.
- (6) Input wire should not be too long. If measured signal have to be faraway from the meter, please use 2-core shielded cable, and connect its shield lager to the LO side of the signal soure.
- (7) If the meter won't be used for a long time, please connect power supply every three months, not less than 4 hours each time.
- (8) Long time for storing the meter should be in the shade,with temperature of -10°C to 70°C, humidity less than 60%. Don't contact with organic solvents or oils.